1. A minimum cable length of 300 meters or 1,000 feet is allowed to connect the cable to the enclosure to the associated apparatus. The total allowable cable length used to connect all the U.S. devices to the associated apparatus is 500/4 meters or 500 feet.

2. Each cable (or wiring) used to connect is devices to the console must not exceed a current of 300 microamps or 100 picoamps.

3. The total cable capacity, considering all of the cable used to connect the intrinsically safe device to the associated apparatus, must not exceed 500 mA.

4. Each cable must not exceed an inductance of 0.555 microhenries or 0.2 microhenries.

5. The line-to-line spacing of the cable must not exceed 200 millimeters.

6. For each TIA-350 console installed, the maximum number of devices connected to the associated apparatus is 50. A maximum of four TIA-350 consoles can be connected to the TIA-350 console, where each connected to the equipment equal one device.

7. Intrinsically safe associated apparatus as shown in the list in paragraph 10 or a normal or normal auxiliary circuit, a source of potential, an input, or any other component in excess of 2000 volts amperes, must not exceed 2000 volts amperes.

8. Connect the casing ground to the earth ground bus at the power distribution panel using a 1 mm² (10 AWG) or larger conductor. Grounding must comply with IEC 60364-4, Clause 5.4.

9. This should center a field wiring connection inside a weatherproof junction box. Each intrinsically safe device may use an additional surge protector at the point of the weatherproof junction box located inside Zone 1. Surge protectors consist of either a certified-in-line device or a separate Surge Arrester (I EC 60364-4, Clause 5.4). Safety should be in the system or the surge protectors and not in the weatherproof junction box.

10. A test switch must be provided to determine if the equipment location is susceptible to leakage or other devices. If the test switch is provided with a contact, the equipment must be checked for leakage. The test switch must be checked for leakage at least once a week. The test switch must be checked for leakage at least once a week. The test switch must be checked for leakage at least once a week.

11. It is the responsibility of the installer to determine compliance of the system to the following requirements:
   a. Conductors of passive components only, for example, switches, junction boxes, and receptacles.
   b. Conductors without any sources of stored energy such as batteries, capacitors, and inductors.
   c. Conductors without sources of generated energy that produce more than 1.50% and 20mW of sources that contain a means of increasing the voltage.
   d. Conductors with a metallic housing. The cable shall be capable of withstanding the test voltage to earth in accordance with IEC 60079-11, Clause 4.3.3.1 and the terminal must comply with IEC 60079-11, Clause 3.3.1.
   e. Metallic enclosures and conduits of light metal must comply with IEC 60079-1, Sections 7 & 8 and IEC 60079-25 Clause 4.3.3.1.
   f. Based on the available power within the system, the cable shall be capable of withstanding a temperature of 40°C and 20°C. The other types of cable shall be used in accordance with IEC 60079-11, Section 2.3.

12. The cable shall be a single process connection in accordance with IEC 60079-25.

13. All circuits must be safe for use as defined in the certificate of conformity and the site preparation guide, Manual No. 6D7901-0, must be taken into account.

14. This system descriptive document describes the intrinsically safe equipment and associated apparatus that are connected in an intrinsically safe system.

15. The TIA-350 consoles must be installed in an indoor, non-hazardous area in accordance with the descriptive system document and the installation instructions. The TIA-350 console can be connected to only one TIA-350 console as described on the document. All other consoles or other associated apparatus, cannot be connected to any single intrinsically safe apparatus as described on the document. Only one TIA-350 console can be connected to any single intrinsically safe apparatus.

16. The TIA-350 series devices marked Group I or Group II, when used within this system, are limited to Group I or Group II.

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